White-Westinghouse

S4(75-82,91)WM_ENGLSH_120709A

White-Westinghouse

INSTRUCTIONS MANUAL

SPLIT TYPE ROOM AIR CONDITIONER

WAS(C,E)09C2ADLW / WAS(C,E)12C2ADLW / WAS(C,E)18C2ADLW
WAS(C,E)24C2ADLW / WAS(C,E)09C5ADLW / WAS(C,E)12C5ADLW
WAS(C,E)18C5ADLW / WAS(C,E)24C5ADLW / WAS(C,E)09P5ADLW
WAS(C,E)12P5ADLW / WAS(C,E)18P5ADLW / WAS(C,E)24P5ADLW
WAS(C,E)12C2ABLW

Please read this manual completely before operating your room air conditioner.

Welcome to the world of simple handling and no worries.

Thank you for choosing White Westinghouse. This manual contains all of the information required to guarantee your safety and the appropriate use of your air conditioner.

Please read all of the instructions before using the air conditioner and keep this manual for future reference.

We know you will enjoy your new air conditioner and thank you for choosing our product. We hope you will consider us for future purchase.

Environmental Advices

The packaging material used is recyclable; we recommend that you separate plastic, paper and cardboard and give them to recycling companies. According to WEEE (Waste of Electrical and Electronic Equipment) guidelines, waste from electrical and electronic devices should be collected separately. If you need to dispose of this appliance in the future, do NOT throw it away with the rest of your domestic garbage. Instead, please take the appliance to the nearest WEEE collection point, where available.

The air conditioner you purchased has R410a gas refrigerant a environmental friendly gas which does not damage the ozone layer.

Attention

The air conditioner that you have bought may be slightly different from the one illustrated in this manual. Please refer to the information related to the model you have.
This air conditioner is for domestic use only. It is not reccomended for commercial or industrial use.
The air conditioner you have may carry a different plug than the one illustrated in this manual. The plug that comes with the product follows the electrical specification of the country where it is sold.

Contents

Safety precautions

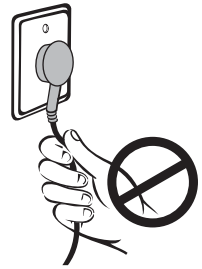
To prevent injury to the user or other people and property damage, the following instructions must be followed.

Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications.

1. During the installation of the indoor and outdoor units the access to the working area should be forbidden to children. Unforeseeable accidents could happen.
2. Make sure that the base of the outdoor unit is firmly fixed.
3. Check that air cannot enter the refrigerant system and check for refrigerant leaks when moving the air conditioner.
4. Carry out a test cycle after installing the air conditioner and record the operating data.
5. The user must protect the indoor unit with a fuse of suitable capacity for the maximum input current or with another overload protection device.
6. Ensure that the mains voltage corresponds to that stamped on the rating plate . Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.

7. Check that the socket is suitable for the plug, otherwise have the socket changed.
8. Do not install the appliance at a distance of less than 50 cm from inflammable substances (alcohol, etc.) Or from pressurised containers (e.g. spray cans).
9. If the appliance is used in areas without the possibility of ventilation, precautions must be taken to prevent any leaks of refrigerant gas from remaining in the environment and creating a danger of fire
10. The packaging materials are recyclable and should be disposed of in the separate waste bins .Take the air conditioner at the end of its useful life to a special waste collection centre for disposal.
11. Only use the air conditioner as instructed in this booklet . These instructions are not intended to cover every possible condition and situation . As with any electrical household appliance , common sense and caution are therefore always recommended for installation, operation andmaintenance.
12. The appliance must be installed in accordance with applicable national regulations.
13. Before accessing the terminals , all the power circuits must be disconnected from the power supply.

15. Do not try to install the conditioner alone; always contact specialized technical personnel.
16. Cleaning and maintenance must be carried out by specialised technical personnel. In any case disconnect the appliance from the mains electricity supply before carrying out any cleaning or maintenance.
17. Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket , thereby avoiding the risk of electric shock or fire due to insufficient contact.
18. Do not pull out the plug to switch off the appliance when it is in operation, since this could create a spark and cause a fire, etc.
19. Never remain directly exposed to the flow of cold air for a long time. The direct and prolonged exposition to cold air could be dangerous for your health. Particular care should be taken in the rooms where there are children, old or sick people.
20. If the appliance gives off smoke or there is a smell of burning, immediately cut off the power supply and contact the Service Centre.
21. The prolonged use of the device in such conditions could cause fire or electrocution.

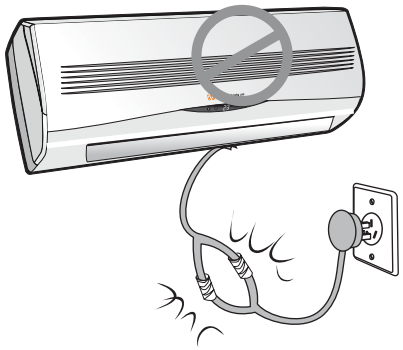


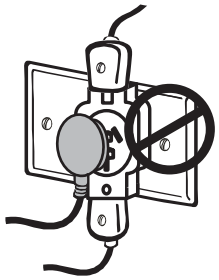
22. Have repairs carried out only by an authorised Service Centre of the manufacturer . Incorrect repair could expose the user to the risk of electric shock, etc.
23. This appliance has been made for air conditioning domestic environments and must not be used for any other purpose , such as for drying clothes, cooling food, etc.
24. The packaging materials are recyclable and should be disposed of in the sparate waste bins. Take the air conditioner at the end of its useful life to a special waste collection centre for disposal.
25. Always use the appliance with the air filter mounted . The use of the conditioner without air filter could cause an excessive accumulation of dust or waste on the inner parts of the device with possible subsequent failures.
26. The user is responsible for having the appliance installed by a qualified technician , who must check that it is earthed in accordance with current legislation and insert a thermomagnetic circuit breaker.
27. Unhook the automatic switch if you foresee not to use the device for a long time. The airflow direction must be properly adjusted.

28. The flaps must be directed downwards in the heating mode and upwards in the cooling mode.
29. Only use the air conditioner as instructed in this booklet.These instructions are not int ended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation , operation and maintenance.
30. Ensure that the appliance is disconnected from the power supply when it will remain inoperative for a long period and before carrying out any cleaning or maintenance.
31. Selecting the most suitable temperature can prevent damage to the appliance.

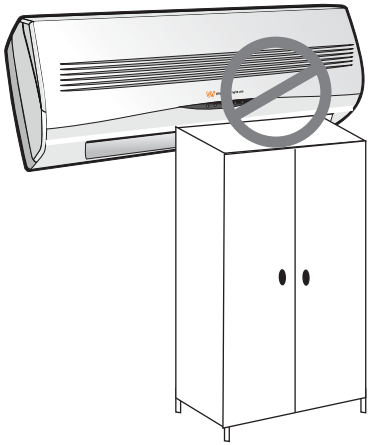
Prohibitions

1. Do not bend , tug or compress the power cord since this could damage it. Electrical shocks or fire are probably due to a damaged power cord. Specialised technical personnel only must replace a damaged power cord.02.Do not use extensions or gang modules.
2. Do not touch the appliance when barefoot or parts of the body are wet or damp.
3. Do not obstruct the air inlet or outlet of the indoor or the outdoor unit. The obstruction of these openings causes a reduction in the operative efficiency of the conditioner with possible consequent failures or damages.
4. In no way alter the characteristics of the appliance.
5. Do not install the appliance in environments where the air could contain gas, oil or sulphur or near sources of heat.
6. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
7. Do not climb onto or place any heavy or hot objects on top of the



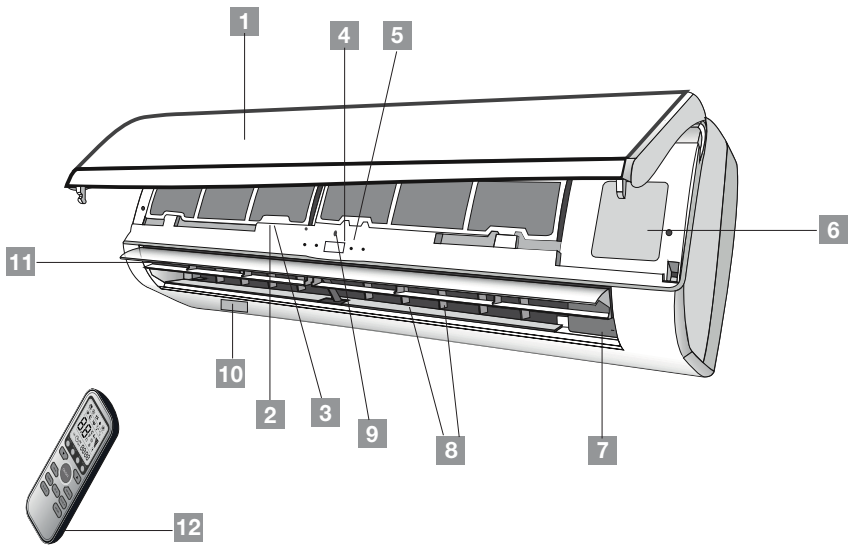


8. Do not leave windows or doors open for long when the air conditioner is operating.
9. Do not direct the airflow onto plants or animals.
10. A long direct exposition to the flow of cold air of the conditioner could have negative effects on plants and animals.
11. Do not put the conditioner in contact with water. The electrical insulation could be damaged and thus causing electrocution.
12. Do not climb onto or place any objects on the outdoor unit.
13. Never insert a stick or similar object into the appliance. It could cause injury.
14. Children should be supervised to ensure that they do not play with the appliance. If the supply cord is damaged, it must be replaced by the manufacturer,its service agent or similarly qualified persons in order to avoid a hazard.



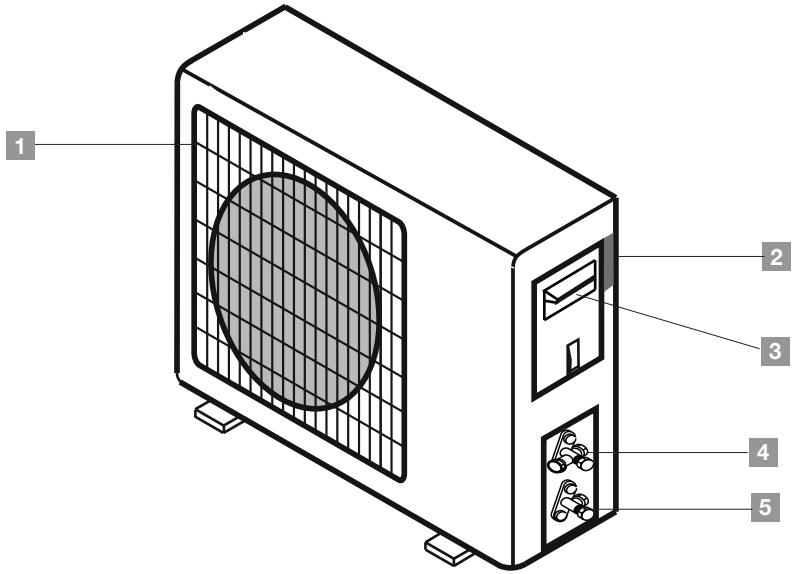
Parts list

Indoor unit



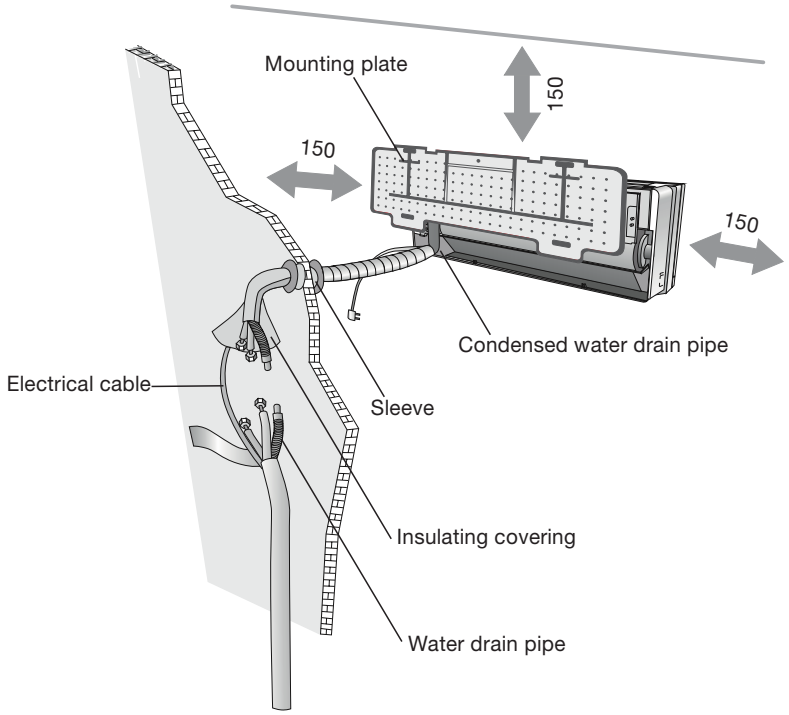
1. Front panel
2. Air filter
3. Optional filter (if installed)
4. LED Display
5. Signal receiver
6. Terminal block cover
7. Ionizer generator(if installed)
8. Deflectors
9. Emergency button
10. Indoor unit rating label
11. Airflow direction flaps
12. Remote control

Outdoor unit



1. Air outlet grille
2. Outdoor unit rating label
3. Cover
4. Gas valve
5. Liquid valve

Indoor unit installation



- Install the indoor unit level on a strong wall that is not subject to vibrations.
- The inlet and outlet ports should not be obstructed:the air should be able to blow all over the room.
- Do not install the unit near a source of heat , steam,or flammable gas.
- Install the unit near an electric socket or private circuit.
- Do not install the unit where it will be exposed to direct sunlight.
- Install the unit where connection between indoor and outdoor unit is as easy as possible.
- Install the unit where it is easy to drain the condensed water.
- Check the machine operation regularly and leave the necessary spaces as shown in the picture.

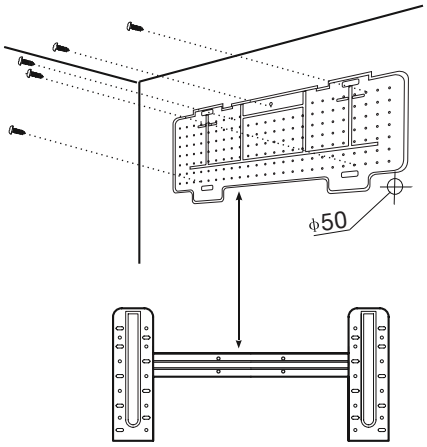
Before starting installation, decide on the position of the indoor and outdoor units, taking into account the minimum space required around the units.

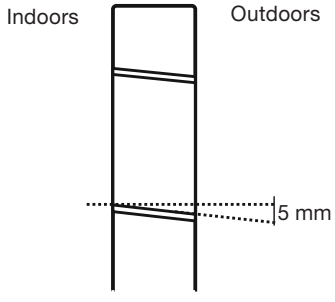
Installation of the mounting plate

1. By using a level, put the mounting plate in a perfect square position vertically and horizontally.
2. Drill 32 mm deep holes in the wall to fix the plate;
3. Insert the plastic anchors into the hole;
4. Fix the mounting plate by using the provided tapping screws;
5. Check that the mounting plate is correctly fixed.

Drilling a hole in the wall for the piping

1. Decide where to drill the hole in the wall for the piping (if necessary) according to the position of the mounting plate;
2. Install a flexible flange through the hole in the wall to keep the latter intact and clean. The hole must slope downwards towards the exterior. Keep the drain pipe down towards the direction of the wall hole, otherwise leakage may occur.





Attention

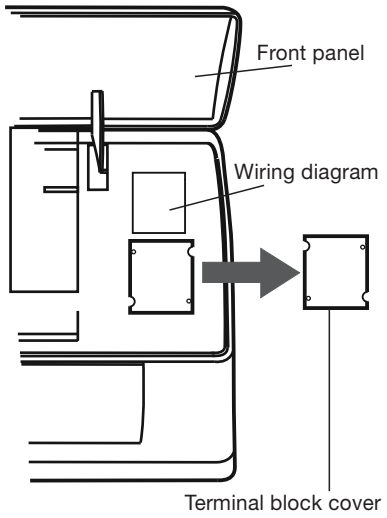
Install the indoor unit in the room to be air conditioning, avoiding to install in corridors or communal areas.

Install the indoor unit at a height of at least 2.5 m from the ground.

Electrical connections

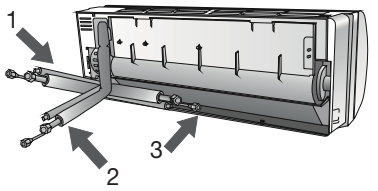
1. Lift the front panel.
2. Take off the cover as indicated in the piciure (by removing a screw or by breaking the hooks).
3. For the electrical connections, see the circuit diagram on the right part of the unit under the front panel.
4. Connect the cable wires to the screw terminals by following the numbering ,Use wire size suitable to the electric power input (see name plate on the unit) and according to all current national safety code requirements.
5. The cable connecting the outdoor and indoor units must be suitable for outdoor use.
6. The plug must be accessible also after the appliance has been installed so that it can be pulled out if necessary.
7. An efficient earth connection must be ensured.
8. If the power cable is damaged, it must be replaced by an authorised Service Centre.

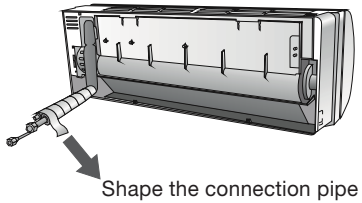
The cable wires has been connected to the main PCB of indoor unit by manufacturer according to the model without terminal block.



Refrigerant piping connection

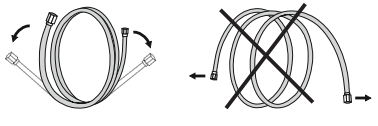
The piping can be run in the 3 directions indicated by numbers in the picture . When the piping is run in direction 1or3, cut a notch along the groove on the side of the indoor unit with a cutter. Run the piping in the direction of the wall hole and bind the copper pipes , the drain pipe and the power cables together with the tape with the drain pipe at the bottom, so that water can flow freely.





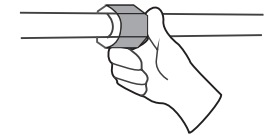
Connecting the pipes

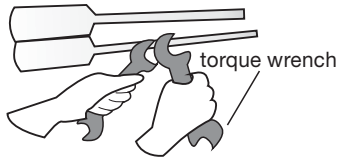
- Do not remove the cap from the pipe until connecting it, to avoid dampness or dirt from entering.
- If the pipe is bent or pulled too often , it will become stiff . Do not bend the pipe more than three times at one point.
- When extending the rolled pipe, straighten the pipe by unwinding it gently as shown in the picture.



Connections to the indoor unit

1. Remove the indoor unit pipe cap (check that there is no debris inside).
2. Insert the fare nut and create a flange at the extreme end of the connection pipe.
3. Tighten the connections by using two wrenches working in opposite

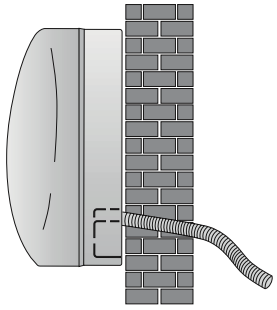




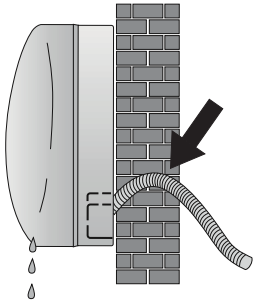
Indoor unit condensed water drainage

The indoor unit condensed water drainage is fundamental for the success of the installation.

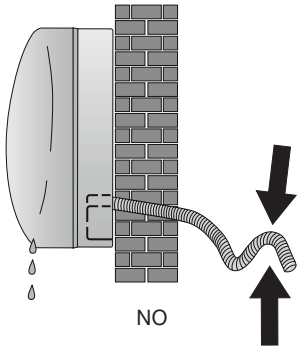
1. Place the drain hose below the piping, taking care not to create siphons.
2. The drain hose must slant downwards to aid drainage.
3. Do not bend the drain hose or leave it protruding or twisted and do not put the end of it in water . If an extension is connected to the drain hose , ensure that it is lagged when it passes into the indoor unit.
4. If the piping is installed to the right, the pipes, power cable and drain hose must be lagged and secured onto the rear of the unit with a pipe connection.
5. Insert the pipe connection into the relative slot.
6. Press to join the pipe connection to the base.



YES



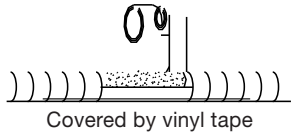
NO

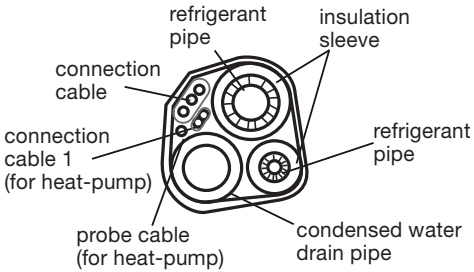


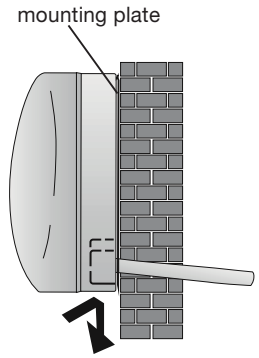
NO

After having connected the pipe according to the instructions, install the connection cables. Now install the drain pipe. After connection,lag the pipe, cables and drain pipe with the insulating material.

1. Arrange the pipes ,cables and drain hose well.
2. Lag the pipe joints with insulating material , securing it with vinyl tape.
3. Run the bound pipe , Cables and drain pipe through the wall hole and mount the indoor unit onto the upper part of the mounting plate securely.
4. Press and push the lower part of the indoor unit tightly against the mounting plate.







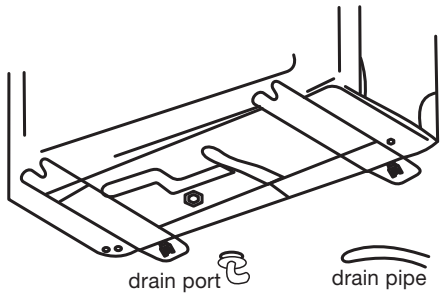
Outdoor unit installation

1. The outdoor unit should be installed on a solid wall and fastened securely.
2. The following procedure must be observed before connecting the pipes and connecting cables : decide which is the best position on the wall and leave enough space to be able to carry out maintenance easily.
3. Fasten the support to the wall using screw anchors which are particularly suited to the type of wall.
4. Use a larger quantity of screw anchors than normally required for the weight they have to bear to aviod vibration during operation and remain fastened in the same position for years without the screws becoming loose.
5. The unit must be installed following the national regulations.
6. Do not install the outdoor unit near sources of heat, steam or flammable gas.
7. Do not install the unit in too windy or dusty places.
8. Do not install the unit where people often pass. Select a place where the air discharge and operating sound level will not disturb the neighbours.
9. Avoid installing the unit where it will be exposed to direct sunlight (other wise use a protection , if necessary, that should not interfere with the air flow). Leave the spaces as shown in the picture for the air to circulate freely.
10. Install the outdoor unit in a safe and solid place. If the outdoor unit is

Outdoor unit condensed water drainage (only for heat pump models)

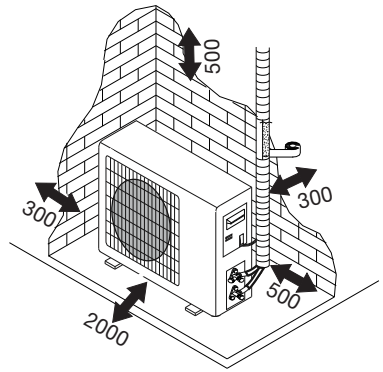
The condensed water and the ice formed in the outdoor unit during heating operation can be drained away through the drain pipe.

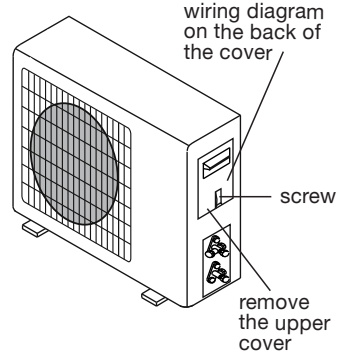
1. Fasten the drain port in the 25mm hole placed in the part of the unit as shown in the picture.
2. Connect the drain port and the drain pipe. Pay attention that water is drained in a suitable place.



Electrical connections

1. Take the cover away.
2. Connect the cable wires to the terminal board using the same numbering as in the indoor unit.
3. For the electrical connections, see the wiring diagram on the back of the cover.
4. Fasten the cables with a cable-clamp.
5. An efficient earth connection must be ensured.
6. Replace the covers.



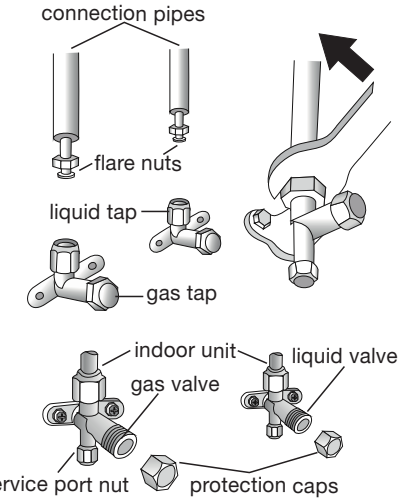


Connecting the pipes

Screw the flare nuts to the outdoor unit coupling with the same tightening procedures described for the indoor unit.

To avoid leakage, pay attention to the following points:

1. Tighten the flare nuts using two wrenches. Pay attention not to damage the pipes.
2. If the tightening torque is not sufficient , there will probably be some leakage. With excessive tightening torque there will also be some leakage, as the flange could be damaged.
3. The surest system consists in tightening the connection by using a fix wrench and a torque wrench:in this case use the table on page 24.

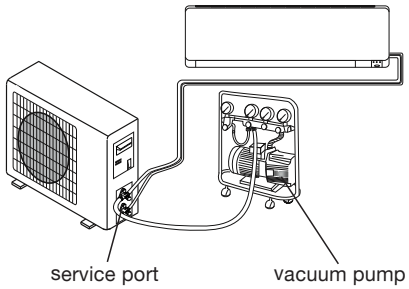


Bleeding

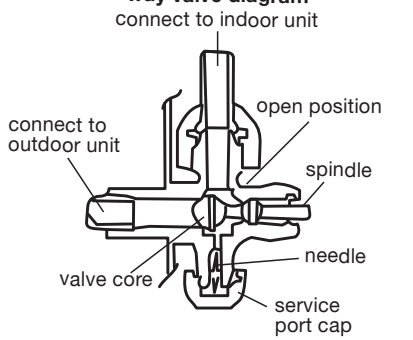
Air and humidity left inside the refrigerant circuit can cause compressor malfunction. After having connected the indoor and outdoor units, bleed the air and humidity from the refrigerant circuit by using a vacuum pump.

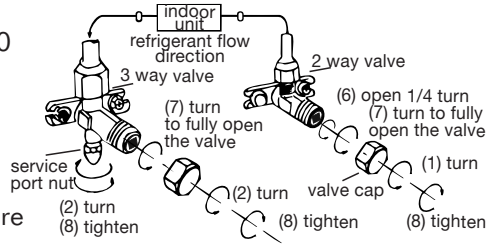
The air and humidity left inside the refrigerant circulation can cause compressor malfunction. After having connected the indoor and outdoor units, bleed the air and humidity from the refrigerant circulation using a vacuum pump.

1. Unscrew and remove the caps from the 2 - way and 3-way valves.
2. Unscrew and remove the cap from the service port.
3. Connect the vacuum pump hose to the service port.
4. Operate the vacuum pump for 10 - 15 minutes until an absolute vacuum of 10 mm Hg has been reached.
5. With the vacuum pump still in operation , close the low - pressure knob on the vacuum pump coupling. Stop the vacuum pump.
6. Open the 2 - way valve by 1/4 turn and then close it after 10 seconds. Check all the joints for leaks using liquid soap or an electronic leak device.



way valve diagram

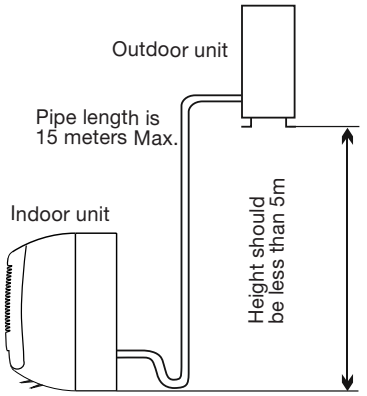


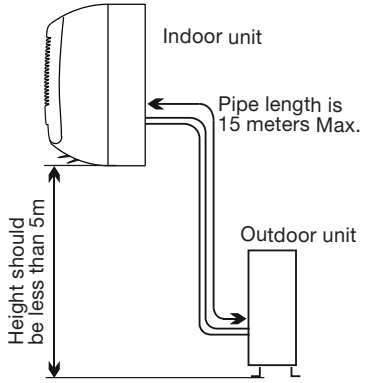


7. Turn the body of the 2-way and 3-way valves. Disconnect the vacuum pump hose.
8. Replace and tighten all the caps

Operation test

Installation diagram





Final tests

1. Wind insulating covering around the joints of the indoor unit and fix it with insulating tape.
2. Fix the exceeding part of the signal cable to the piping or to the outdoor unit.
3. Fix the piping to the wall (after having coated it with insulating tape) using clamps or insert them into plastic slots.
4. Seal the hole in the wall through which the piping is passed so that no air or water can fill..

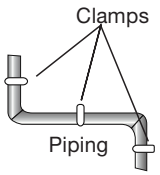
Indoor unit test

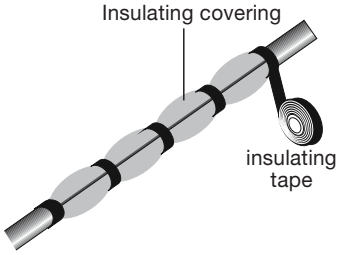
- Do the ON/OFF and FAN operate normally?
- Does the MODE operate normally?
- Do the set point and TIMER function properly?
- Does each lamp light normally?
- Do the flap for air flow direction operate normally?
- Is the condensed water drained regularly?

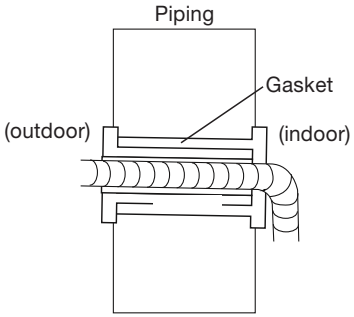
Outdoor unit test

- Is there any abnormal noise or vibration during operation?
- Could the noise , the air flow or the condensed water drainage disturb the neighbours?
- Is there any coolant leakage?

The electronic controller allows the compressor to start only three minutes after voltage has reached the system.







Informations

Fixed-speed Type	7k	9k	12k	15/18k	22/24k	28/30k
Liquid pipe diameter	1/4" (ϕ6)	1/4" (ϕ6)	1/4" (ϕ6)	1/4" (ϕ6)	3/8" (ϕ9,52)	3/8" (ϕ9,52)
Gas pipe diameter	3/8" (ϕ9,52)	3/8" (ϕ9,52)	3/8" (ϕ9,52)	½" (ϕ12)	5/8" (ϕ15,88)	5/8" (ϕ15,88)
Lenght of pipe with standard charge	3m	3m	3m	4m	4m	4m
Maximum distance between indoor and outdoor unit	15m	15m	15m	15m	15m	15m
Additional gas charge	20g/m	20g/m	20g/m	30g/m	30g/m	30g/m
Max. diff. in level between indoor and outdoor unit	5m	5m	5m	5m	5m	5m
Type of refrigerant	R410A	R410A	R410A	R410A	R410A	R410A

Inverter Type	9k	12k	15/18k	22/24k
Liquid pipe diameter	1/4" (ϕ6)	1/4" (ϕ6)	1/4" (ϕ6)	3/8" (ϕ9,52)
Gas pipe diameter	3/8" (ϕ9,52)	3/8" (ϕ9,52)	½" (ϕ12)	5/8" (ϕ15,88)
Lenght of pipe with standard charge	3m	3m	4m	4m
Maximum distance between indoor and outdoor unit	15m	15m	15m	15m
Additional gas charge	20g/m	20g/m	30g/m	30g/m
Max. diff. in level between indoor and outdoor unit	5m	5m	5m	5m
Type of refrigerant	R410A	R410A	R410A	R410A

Tightening torque for protection caps and flange connection				
Pipe	**Tightening torque (n x m)**	**Corresponding stress (using a 20 cm wrench)**		**Tightening torque (n x m)**
1/4" (ϕ6)	15 - 20	wrist strength	Service port nut	7 - 9
3/8" (ϕ9,52)	31 - 35	arm strength	Protection caps	25 - 30
1/2" (ϕ12)	35 - 45	arm strength		
5/8" (ϕ15,88)	75 - 80	arm strength		

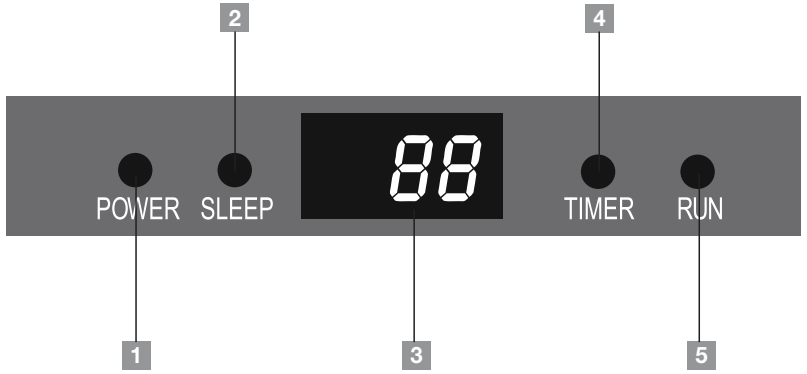
Cable wires specification

Fixed-speed Type		5k	7k	9k	12k	15/18k	22/24k	28/30k
		sectional area						
Power supply cable	N	1,0mm² AWG18	1,0mm² AWG18	1,0mm² AWG18	1,0mm² (1,5mm²) AWG18 (AWG16)	1,5mm² AWG16	2,5mm² AWG14 H05RN-F	4,0mm² AWG12
	L	1,0mm² AWG18	1,0mm² AWG18	1,0mm² AWG18	1,0mm² (1,5mm²) AWG18 (AWG16)	1,5mm² AWG16	2,5mm² AWG14 H05RN-F	4,0mm² AWG12
	E	1,0mm² AWG18	1,0mm² AWG18	1,0mm² AWG18	1,0mm² (1,5mm²) AWG18 (AWG16)	1,5mm² AWG16	2,5mm² AWG14 H05RN-F	4,0mm² AWG12
Connection supply cable	N	1,0mm²	1,0mm²	1,0mm²	1,0mm² (1,5mm²)	1,5mm²	0,75mm²	0,75mm²
	L	1,0mm²	1,0mm²	1,0mm²	1,0mm² (1,5mm²)	1,5mm²	0,75mm²	0,75mm²
	1	1,0mm²	1,0mm²	1,0mm²	1,0mm² (1,5mm²)	1,5mm²	0,75mm²	0,75mm²
	2	0,75mm²	0,75mm²	0,75mm²	0,75mm²	0,75mm²	0,75mm²	0,75mm²
	3	0,75mm²	0,75mm²	0,75mm²	0,75mm²	0,75mm²	0,75mm²	0,75mm²
	⏚	0,75mm²	0,75mm²	0,75mm²	0,75mm²	0,75mm²	0,75mm²	0,75mm²

Inverter Type				9k	12k	15/18k	22/24k	
				sectional area				
Power supply cable	N			1,0mm² (1,5mm²) AWG18 (AWG16)	1,0mm² (1,5mm²) AWG18 (AWG16)	1,5mm² AWG16	2,5mm² AWG14	
	L			1,0mm² (1,5mm²) AWG18 (AWG16)	1,0mm² (1,5mm²) AWG18 (AWG16)	1,5mm² AWG16	2,5mm² AWG14	
	E			1,0mm² (1,5mm²) AWG18 (AWG16)	1,0mm² (1,5mm²) AWG18 (AWG16)	1,5mm² AWG16	2,5mm² AWG14	
Connection supply cable	N			1,0mm² (1,5mm²)	1,0mm² (1,5mm²)	1,5mm²	0,75mm²	
	L			1,0mm² (1,5mm²)	1,0mm² (1,5mm²)	1,5mm²	0,75mm²	
	1			1,0mm² (1,5mm²)	1,0mm² (1,5mm²)	1,5mm²	0,75mm²	
	⏚			1,0mm² (1,5mm²)	1,0mm² (1,5mm²)	1,5mm²	0,75mm²	

Type for 220V of fuse used on indoor unit controller for 7K , 9K , 12K 15K , 16K , 18K , 22K , 24K , 30K is 50T with rating 3.15 A , 250V Type for 110V of fuse used on indoor unit controller for 7K , 9K 12k is 50T with rating 3.15 A , 125V, ; Type of fuse used on inverter outdoor unit controller for 7K , 9K , 12K is 61T with rating 15 A , 250V , for 18K , 22K , 24K is 65TS with rating 25A , 250V.

Indoor unit display



Nº	LED	Function
1	Power	Shows that the unit is powered
2	Sleep	Sleep mode
3	Temperature display (if present)	Indicates the set temperature ºC in or ºF
4	Timer	Timer mode
5	Run	Unit working

Display functions

Auto-restart function

The appliance is preset auto - restart function by manufacturer. With this function the air conditioner can keep the selected settings after a blackout or a voltage drop.

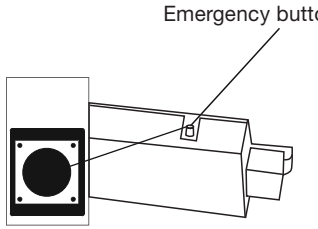
To deactivate the AUTO-RESTART function ,proceed as follows:

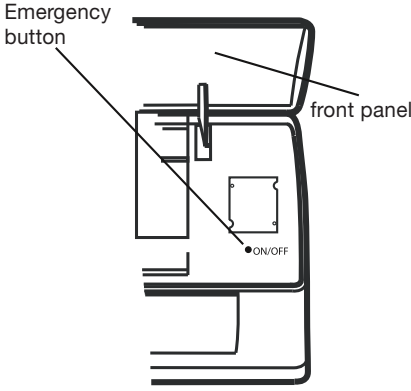
1. Switch the air conditioner off and plug it off.
2. Press the emergency button meanwhile plug it in.
3. Keep pressing the emergency button for more than 10 seconds until you hear four short beeps from the unit. The AUTO-RESTART function is off.
4. To activate the AUTO - RESTART function , follow the same procedure until you hear three short beeps from the unit.

Emergency function

If the remote control is lost,proceed as follows: Lift the unit s front panel to reach the emergency button of the air conditioner.

1. If you press the button once (one beep), the air conditioner will work in forced cooling function;
2. if you press the button twice (two beeps), the unit will work in forced heating function.
3. To switch off the unit , you just need to press the button again (a single long beep) . After 30 minutes in forced function , the air conditioner will automatically start working in FEEL mode.





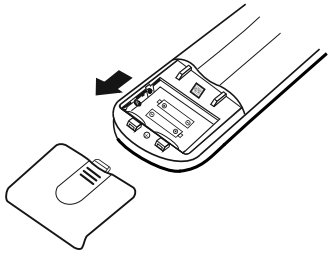
Attention

The shape and position of the emergency button may vary according to the model, but their function is the same.

Remote control

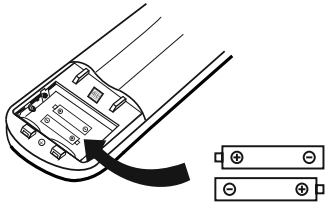
How to insert the batteries

Remove the cover from the battery compartment , by sliding it in the direction of the arrow. Insert the new batteries, ensuring that the (+) and (-) directions are correct. Refit the cover by sliding it into place.

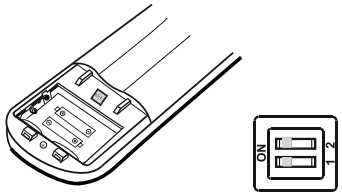


When you insert the batteries for the first time in the remote control or if you change them,you will see a DIP switch under the back cover.

After adjusting the function, you need to take out the batteris and repeat again the procedure described above.



DIP switch on position	Function
ºC	The display is adjusted in degree celsius
ºF	The display is adjusted in degree fahrenheit.
Cool	The remote control is adjusted in only cooling mode
Heat	The remote control is adjusted in only heating mode

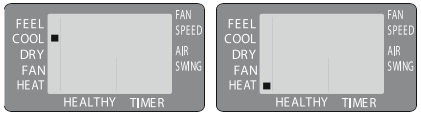


Attention

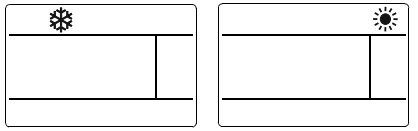
Use 2 LRO 3 AAA (1.5V) batteries. Do not use rechargeable batteries. Replace the old batteries with new ones of the same type when the display is no longer legible.

The remote control batteries must be disposed of in accordance with the applicable laws in force in the country of use.

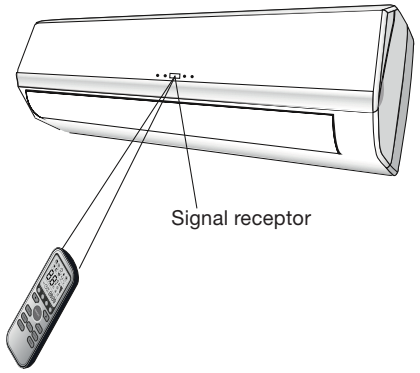
When you insert the batteries for the first time in the remote control or if you change them, you need to program the remote control of only cooling or heat pump air conditioners.



This is very easy:as soon as you insert the batteries, the symbols ❄(COOL ■) and ☀(HEAT ■) start fashing. If you push whatever button when the symbol ❄ (COOL ■) is displayed,the remote control is adjusted in only cooling mode . If you push whatever button when the symbol ☀ (HEAT ■) is displayed, the remote control is adjusted in heating mode.



1. Direct the remote control toward the conditioner.
2. Check that there are no objects between the remote control and the receiver on the conditioner.
3. Never leave the remote control exposed to the rays of the sun.
4. Keep the remote control at a distance of at least 1m from the television or other electrical appliances.

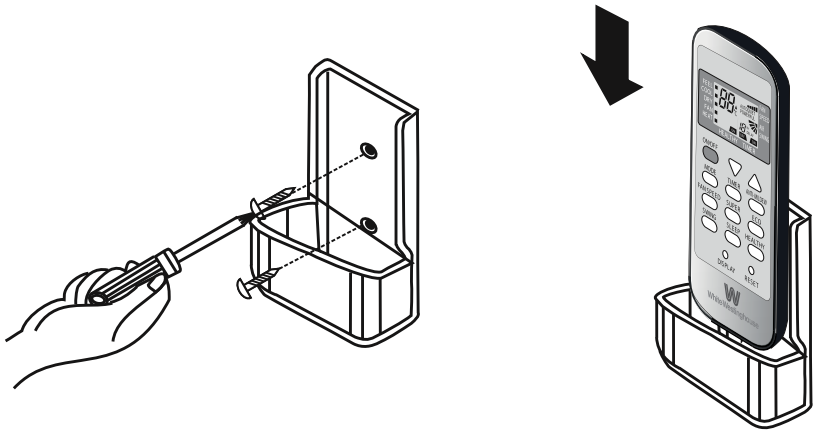


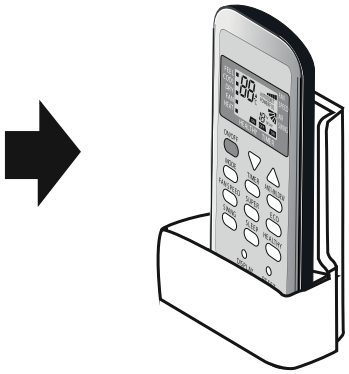
Attention

If you adjust the remote control in cooling mode, it will not be possible to activate the heating function in units with heating pump. You need to take out the batteries and repeat again the procedure.

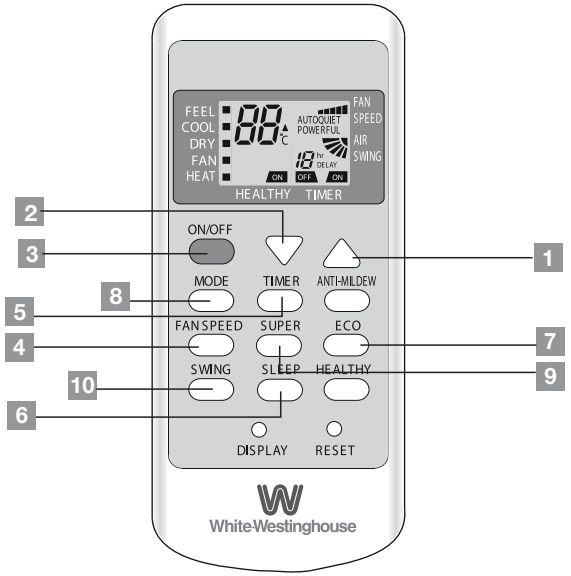
Recommendations for locating and using the remote control (if present)

The remote control may be kept in a wall-mounted holder

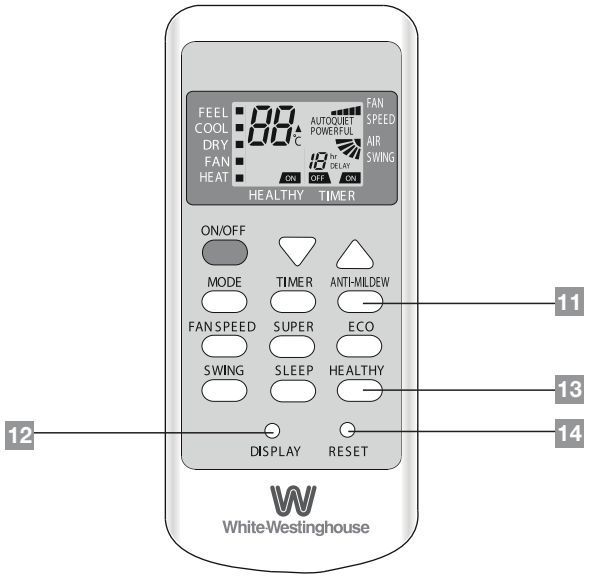




Remote control description



Nº	Button	Function
1	▲ (Temp Up)	Increase the temperature or time by 1 unit
2	▼ (Temp Dn)	Decrease the temperature or time by 1 unit
3	On/Off	To switch the conditioner on and off.
4	Fan	To select the fan speed of auto/low/mid/high
5	Timer	To set automatic switching-on/off
6	Sleep	To activate the function SLEEP
7	Eco	In cooling mode,press this button ,the temperature will increase 2 on the base of setting temperature. In heating mode, press this button, the temperaturewill decrease 2 on the base of setting temperature.
8	Mode	To select the mode of operation
9	Super	In cooling mode, press this button, the unit will give the maximum cooling temperature with 16 ºC. In heating mode, press this button, the unit will give the maximum heating temperature with 31 ºC.
10	Swing	To activate or deactivate of the movement of the DEFLECTORS .

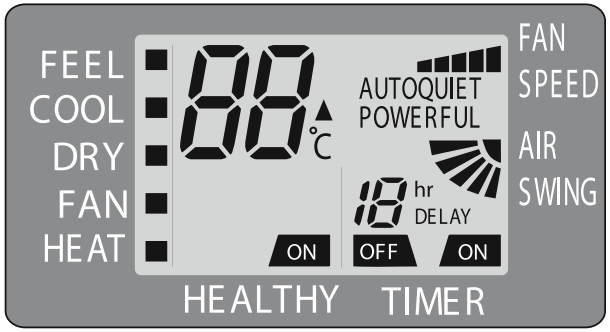


Nº	Button	Function
11	Anti-mildew	To activate the function ANTI-MILDEW
12	Display	To switch on/off the LED display (if present)
13	Healthy	To switch - on /off HEALTHY funtion.It is a button which controls the ionizer or plasma generator only for inverter type.
14	Reset	To restart REMOTE CONTROL

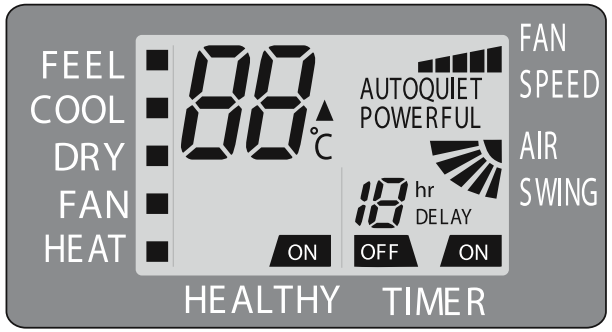
Attention

The unit confirms the correct reception of each press button with a beep.

Remote control display



Nº	Symbols	Meaning
1	△ or Feel	Feel mode indicator
2	❄	Cooling indicator
3	💧	Dehumidifying indicator
4		Fan only operation indicator
5		Heating indicator
6	or ▲	Signal reception indicator
7	or OFF TIMER or OFF	Timer off indicator
8	or ON TIMER or ON	Timer on indicator
9	AUTO or or or (FLASH)	Auto fan indicator
10	or or or	Low fan speed indicator
11	or or or	Middle fan speed indicator
12	or or or	High fan speed indicator



Nº	Symbols	Meaning
13	QUIET or or	Sleep indicator
14		Comfortable sleep indicator (optional)
15		I feel indicator(optional)
16	or	Flap swing indicator
17		Flap and deflectors swing indicator
18	or POWERFUL	Super indicator
19	or ON HEALTHY	Healthy indicator
20	or EC	Eco indicator
21		Anti-mildew indicator
22		Battery indicator
23	88:88	Clock indicator

Attention

Some functions may not be present in this model.

Modes of operation

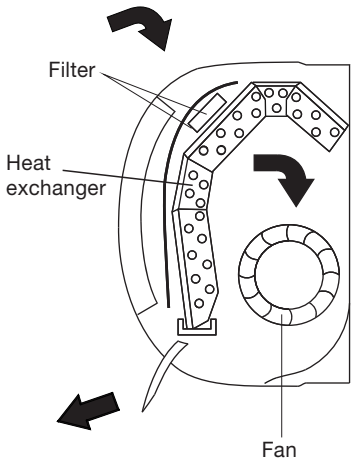
The conditioner is designed to create the comfortable climatic conditions for the people in the room.

It can cool and dehumidify (and heat in models with heat pump) the air in a completely automatic way.

The air sucked by the fan enters from the grill of the front panel and passes through the filter, which keeps the dust.Then it is conveyed the heat exchanger and cooled and dehumidified or heated through the heat exchanger.

The heat removed from the room is drained outside.

When the cycle has finished the fan gives back the fresh air in the room;the direction of the air outlet is regulated by the flaps , which are motorized up and down,and manually moved right and left by the vertical deflectors.

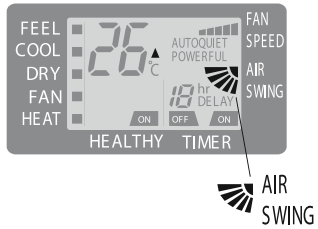


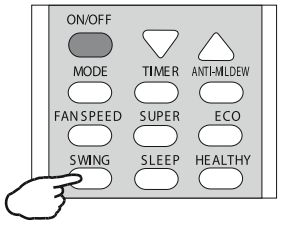
“Swing” control of the air flow

The air outlet flow is uniformly distributed in the room.

It is possible to position the direction of the air in the optimal solution.

The key SWING activates the FLAP ,the air flow is directed alternatively from up to down . In order to guarantee an even diffusion of the air in the room.



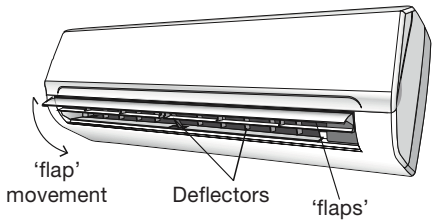


In cooling mode , orient the flaps in horizontal direction.

In heating mode, orient the flaps downward as the warm air always tends to rise upward.

The deflectors are positioned manually and placed under the flaps .They allow to direct the air flow rightward or leftward.

This adjustment must be done with the appliance switched off.



Attention

Never position Flaps manually, the delicate mechanism activating them could be seriously damaged-

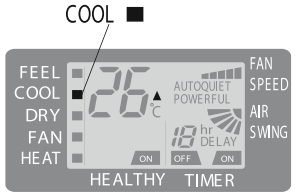
Never insert your hand or objects in the air outlet of the units. These units contains a fan that turns at high speed.

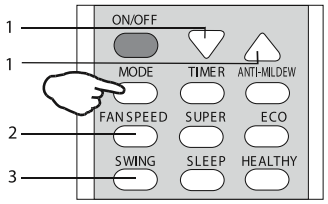
Cooling mode

The cooling function allows the air conditioner to cool the room and at the same time reduces the humidity in the air.

To activate the cooling function (COOL), press the MODE button until the symbol ❄ (COOL■) appears on the display. The cooling cycle is activated by setting the keys ▲ or ▼ at a temperature lower than that of the room.

To optimize the functioning of the conditioner, adjust the temperature (1) , the speed (2) and the direction of the air flow (3) by pressing the keys indicated





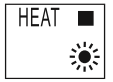
Heating mode

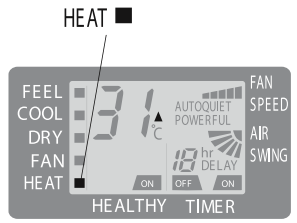
The heating function allows the air conditioner to produce hot air.

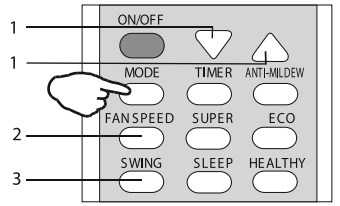
To activate the heating function (HEAT), press the MODE button until the symbol ☀ (HEAT ■) appears on the display.

With the keys ▲ or ▼ set a temperature higher than that of the room.

To optimize the functioning of the conditioner adjust the temperature (1), the speed (2) and the direction of the air flow (3) by pressing the keys indicated







Attention

The appliance is fitted with a Hot Start function, which delays appliance to startup in a few seconds to ensure an immediate output of hot air.

In HEATING operation, the appliance can automatically activate a defrost cycle, which is essential to free the condenser from an excessive deposit of frost .This procedure usually lasts for 2-10 minutes during defrosting,fans stop operation. After defrosting ,it returns to HEATING mode automatically.

Timer mode - Timer ON

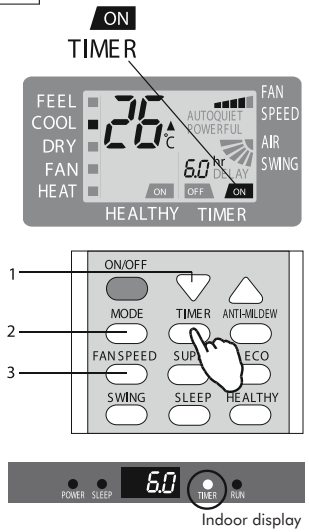
To set the automatic switching-on of the air conditioner.

To program the time start,the appliance should be off. Press TIMER, set the temperature with pressing the key ▲ or ▼ ,press TIMER again , set the time with pressing the key ▲ or ▼ , Press the key more times till on the display you can read the time which passes between the programming and the timed start.

Before proceeding with the timed start : program the working mode with the key MODE (2) and the fan speed with the key FAN (3). Switch the conditioner off (with the key ON/OFF).

To cancel the setted function ,press the TIMER button again.

In case of power off,it is necessary to set TIMER ON again.



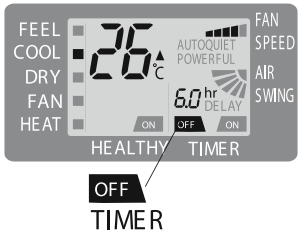
Timer mode - Timer OFF

To set the automatic switching-off of the air conditioner.

The timed stop is programmed with the appliance on. Press TIMER ,Set the time pressing the key ▲ or ▼ ,press the key more times till on the display you can read the time which passes between the programming and the timed stop.

To cancel the setted function, press the TIMER button again.

In case of power off,it is necessary to set TIMER OFF again.



Attention

While the time was right settled, the TIMER function of this remote (clock function) can set by half hours.

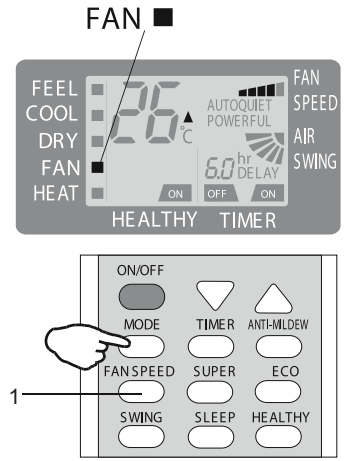
Fan mode

The conditioner works in only ventilation.

To set the FAN mode , Press MODE untill ✾ (FAN■) appears in the display. Whith pressing FAN button the speed changes in the following sequence: LOW/ MEDIUM/HIGH /AUTO in FAN mode.

The remote control also stores the speed that was set in the previous mode of operation.

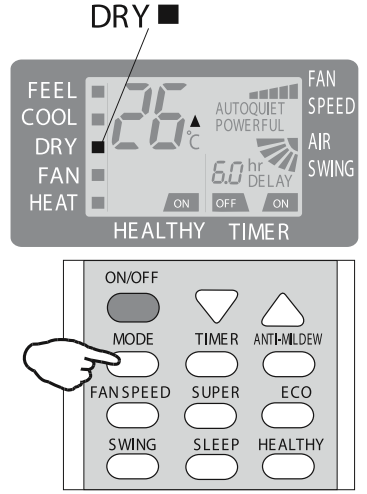
In FEEL mode (automatic) the air conditioner automatically chooses the fan speed and the mode of operation (COOLING or HEATING).



Dry mode

This function reduces the humidity of the air to make the room more comfortable.

To set the DRY mode , Press MODE untill 💧 (DRY ■) appears in the display . An automatic function of alternating cooling cycles and air fan is activated.



Feel mode

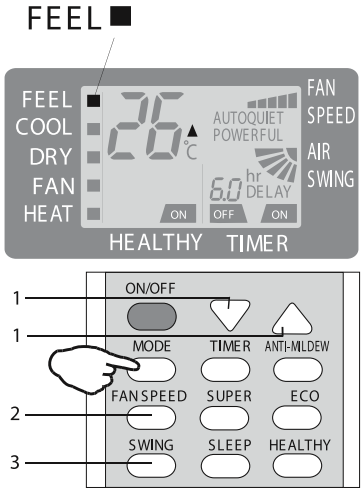
Automatic mode.

To activate the FEEL (automatic) mode of operation, press the MODE button on the remote control until the symbol △ (FELL■) appears in the display.

In the FEEL mode the fan speed and the temperature are set automatically according to the room temperature ttested by the probe which is incorporated in the indoor unit) to ensure user comfort.

To optimize the working of the conditioner, adjust the temperature(only 2)(1), the speed (2) and the direction of the air flow (3) by pressing the buttons indicated.

Ambient temp.	Operation mode	Auto temp.
< 20ºC	Heating (for heat pump type) Fan (for cool only type)	23ºC
20ºC ~26ºC	Dry	18ºC
> 26ºC	Cool	23ºC

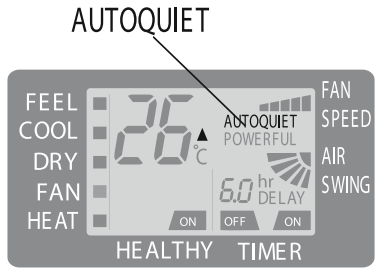


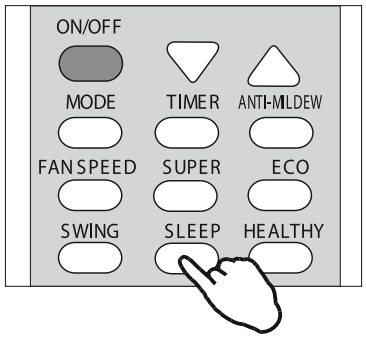
Sleep mode

To activate the SLEEP mode of operation, press the SLEEP button on the remote control until the symbol (AUTOQUIET) appears in the display. AUTO QUIET The function SLEEP automatically adjusts the temperature to make the room more comfortable during the night sleep . In cooling or dry mode , the set temperature will automatically raise by 1ºC every 60 minutes, to achieve a total rise of 2ºC during the first 2 hours of work.

In heating mode the set temperature is gradually decreased by 2 during the first 2 hours of work.

After 10 hours running in sleep mode the air conditioner is swicthed off automatically.





Indoor unit

Protective device

The protective device maybe trip and stop the appliance in the cases listed below.

For T1 Climate condition models

Nº	Model	
		Outdoor air temperature is over 24ºC
1	Heating	Outdoor air temperature is below -7ºC
		Room temperature is over 27ºC
2	Cooling	Outdoor air temperature is over 43ºC
		Room temperature is below 21ºC
3	Dry	Room temperature is below 18ºC

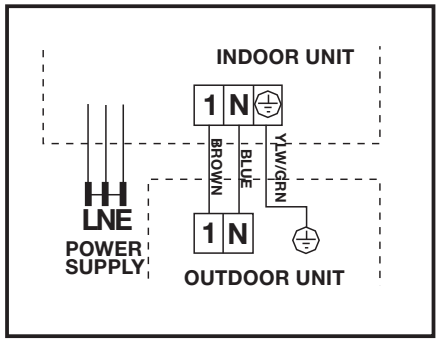
For Tropical (T3) Climate condition models

Nº	Model	
1	Heating	Outdoor air temperature is over 24ºC
		Outdoor air temperature is below -7ºC
		Room temperature is over 27ºC
2	Cooling	Outdoor air temperature is over 52ºC
		Room temperature is below 21ºC
3	Dry	Room temperature is below 18ºC

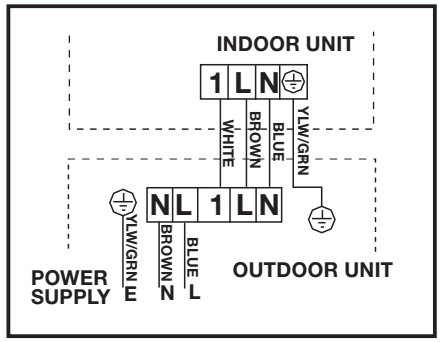
Attention

After stopping and restarting the air coditioner or after changing the mode during operation, the system does not restart immediately, untill after 3 minutes (protection function for the compressor).

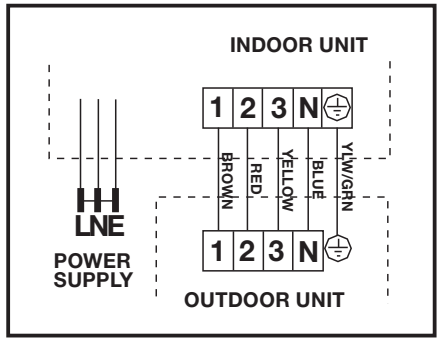
Wiring diagram



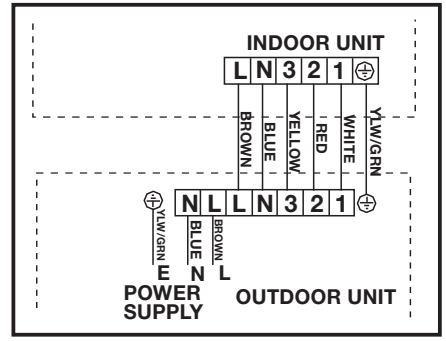
FOR 5K-7K-9K-12K-18K COOLING ONLY MODELS



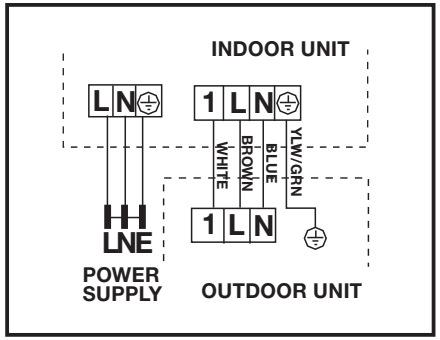
FOR 22K-24K-28K-30K COOLING ONLY MODELS



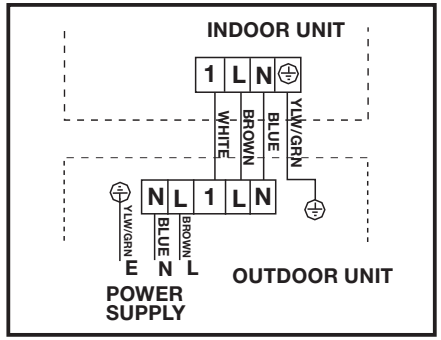
FOR 7K-9K-12K-18K HEAT PUMP MODELS



FOR 22K-24K-28K-30K HEAT PUMP MODELS



FOR INVERTER TYPE
9K-12K-18K-22K HEAT PUMP MODELS



FOR INVERTER TYPE
9K-12K-18K-22K HEAT PUMP MODELS

The cable wires hasbeen connected to the main PCB of indoor unit by manufacturer according to the model without terminal block, see the wiring diagram on the right part of the unit under the front panel and the back of the outdoor cover.

Maintenance

Periodic maintenance is essential for keeping your air conditioner efficient.

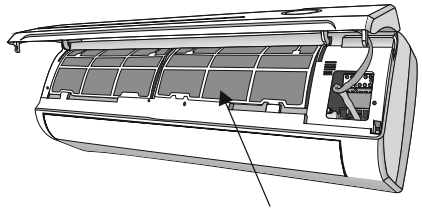
Before carrying out any maintenance , disconnect the power supply by putting the installation on/ off switch to off.

Indoor unit

Antidust filters

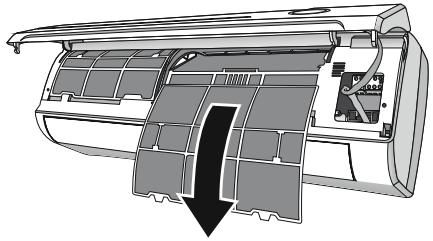
1. Open the front panel following the direction of the arrow.
2. Keeping the front panel raised with one hand, take out the air filter with the other hand.
3. Clean the filter with water ; if the filter is soiled with oil,it can be washed with warm water (not exceeding 45ºC). Leave to dry in a cool and dry place.
4. Keeping the front panel raised with one hand , insert the air filter with the other hand
5. Close

The electrostatic and the deodorant filter (if installed) cannot be washed or regenerated and must be replaced with new filters once every 6 months.



Cleaning the heat exchanger

1. Open the front panel of the unit and life it till its greatest stroke and then unhooking it from the hinges to make the cleaning easier.
2. Clean the indoor unit using a cloth with the water (not higher than 40ºC) and neutral soap . Never use aggressive solvents or detergents.
3. If the battery of the outdoor unit is clogged , remove the leaves and the waste and remove the dust with air jet or a bit of water.



End of season maintenance

1. Disconnect the automatic switch or the plug.
2. Clean and replace the filters.
3. On a sunny day let the conditioner work in ventilation for some hours , so that the inside of the unit can dry completely.

Replacing the batteries

When:

- There is no confirmation beep from the indoor unit.
- The LCD doesn t activate.

How:

- Take off the cover at back.
- Place the new batteries respecting the symbols + and - .

Attention

Use only new batteries. Remove the batteries from the remote control when the conditioner is not in operation.

Do not throw batteries into common rubbish , they should be disposed of in the special containers situated in the collection points.

Solutions for problems

Malfunction	Possible causes
The appliance does not operate	Power failure/plug pulled out
	Damaged indoor/outdoor unit fan motor
	Faulty compressor thermomagnetic circuit breaker
	Faulty protective device or fuses.
	Loose connections or plug pulled out
	It sometimes stops operating to protect the appliance.
	Voltage higher or lower than the voltage range
	Active TIMER-ON function
	Damaged electronic control board
Strange odour	Dirty air filter
Noise of running water	Back flow of liquid in the refrigerant circulation
A fine mist comes from the air outlet	This occurs when the air in the room becomes very cold, for example in the COOLING or DEHUMIDIFYING/DRY modes.
A strange noise can be heard	This noise is made by the expansion or contraction of the front panel due to variations in temperature and does not indicate a problem.
Insufficient airflow,	Unsuitable temperature setting.
	Obstructed air conditioner intakes and outlets.
	Dirty air filter.
	Fan speed set at minimum.
	Other sources of heat in the room.
	No refrigerant.
The appliance does not respond to commands	Remote control is not near enough to indoor unit.
	The batteries of remote control nearly has no power.
	Obstacles between remote control and signal receiver in indoor unit.
The display is off	Active LIGHT function
	Power failure

Malfunction	Possible causes
Switch off the air conditioner immediately and cut off the power supply in the event of:	Strange noises during operation.
	Faulty electronic control board
	Faulty fuses or switches.
	Spraying water or objects inside the appliance.
	Overheated cables or plugs.
	Very strong smells coming from the appliance.

Error signals on the display		
In case of error, the display on the indoor unit shown the following error codes:		
	RUN lamp	Description of the trouble
E1	flashes once	The fault of indoor temperature senser
E2	flashes twice	The fault of indoor pipe temperature senser
E6	flashes 6 times	Malfunction of indoor fan motor.

Technical specifications

COOL MODELS

OUTDOOR UNIT	WASC09C2ADLW	WASC12C2ADLW	WASC18C2ADLW	WASC24C2ADLW
INDOOR UNIT	WASE09C2ADLW	WASE12C2ADLW	WASE18C2ADLW	WASE24C2ADLW
*Color (W=White;S=Silver;M=Mirror)	W	W	W	W
Cycle	Cool	Cool	Cool	Cool
Cooling power (Btu/h)	9000	12000	18000	24000
Heating power (Btu/h)	-	-	-	-
Rated voltage (V)	220	220	220	220
Frequency (Hz)	60	60	60	60
Indoor unit width (mm)	718	770	900	1033
Indoor unit high (mm)	240	240	280	313
Indoor unit depth (mm)	180	180	202	202
Indoor unit net weight (kg)	7	8	11	14
Outdoor unit width (mm)	600	700	760	902
Outdoor unit high (mm)	500	552	552	650
Outdoor unit depth (mm)	232	256	256	307
Outdoor unit net weight (kg)	24	29	35	52

OUTDOOR UNIT	WASC09C5ADLW	WASC12C5ADLW	WASC18C5ADLW	WASC24C5ADLW
INDOOR UNIT	WASE09C5ADLW	WASE12C5ADLW	WASE18C5ADLW	WASE24C5ADLW
*Color (W=White;S=Silver;M=Mirror)	W	W	W	W
Cycle	Cool	Cool	Cool	Cool
Cooling power (Btu/h)	9000	12000	18000	24000
Heating power (Btu/h)	-	-	-	-
Rated voltage (V)	220	220	220	220
Frequency (Hz)	50	50	50	50
Indoor unit width (mm)	718	770	900	1033
Indoor unit high (mm)	240	240	280	313
Indoor unit depth (mm)	180	180	202	202
Indoor unit net weight (kg)	7	8	11	14
Outdoor unit width (mm)	600	700	760	902
Outdoor unit high (mm)	500	552	552	650
Outdoor unit depth (mm)	232	256	256	307
Outdoor unit net weight (kg)	24	29	35	52

OUTDOOR UNIT	WASC12C2ABLW
INDOOR UNIT	WASE12C2ABLW
*Color (W=White;S=Silver;M=Mirror)	W
Cycle	Cool
Cooling power (Btu/h)	12000
Heating power (Btu/h)	-
Rated voltage (V)	220
Frequency (Hz)	60
Indoor unit width (mm)	770
Indoor unit high (mm)	240
Indoor unit depth (mm)	180
Indoor unit net weight (kg)	8
Outdoor unit width (mm)	700
Outdoor unit high (mm)	552
Outdoor unit depth (mm)	256
Outdoor unit net weight (kg)	28

HEAT AND COOL MODELS

OUTDOOR UNIT	WASC09P5ADLW	WASC12P5ADLW	WASC18P5ADLW	WASC24P5ADLW
INDOOR UNIT	WASE09P5ADLW	WASE12P5ADLW	WASE18P5ADLW	WASE24P5ADLW
*Color (W=White;S=Silver;M=Mirror)	W	W	W	W
Cycle	Heat/Cool	Heat/Cool	Heat/Cool	Heat/Cool
Cooling power (Btu/h)	9000	12000	18000	24000
Heating power (Btu/h)	9000	12000	18000	24000
Rated voltage (V)	220	220	220	220
Frequency (Hz)	60	60	60	60
Indoor unit width (mm)	718	770	900	1033
Indoor unit high (mm)	240	240	280	313
Indoor unit depth (mm)	180	180	202	202
Indoor unit net weight (kg)	7	8	11	14
Outdoor unit width (mm)	600	700	760	902
Outdoor unit high (mm)	500	552	552	650
Outdoor unit depth (mm)	232	256	256	307
Outdoor unit net weight (kg)	24	29	35	52

Notes